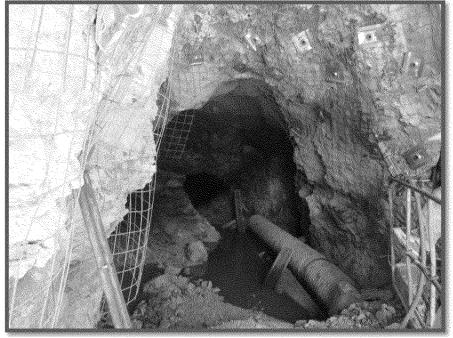
SITUATION REPORT INCIDENT COMMAND POST GOLD KING GOLD KING MINE RELEASE INCIDENT U.S. ENVIRONMENTAL PROTECTION AGENCY





Stabilization activities inside Gold King Mine adit/portal.

Subject: EXECSUM / SITREP #34

Gold King Mine Release Incident San Juan County, Colorado

Latitude: 37.8945 Longitude: -107.6384

From: Situation Unit, Incident Command Post Gold King

Date: 14 September 2015

Reporting Period: 0700 13 September 2015 through 0700 14 September 2015

Website: www.epa.gov/goldkingmine



For Internal Use Only

EXECUTIVE SUMMARY

Situation Summary

U C

	States Environmental Protection Agency (U.S. EPA) Incident Command Post Gold King (ICPGK) is sed of U.S. EPA Regions 8, 6 and 9.
Hig	ghlights, Key Updates/Changes
	ICPGK continues to monitor relations with the Navajo Nation.
Ob	jectives
	Ensure health and safety of the public and responders. Continue implementation of private well sampling and water deliveries. Establish strategy for MCL-exceeded private wells. Continue coordination with Federal, State, Tribal and local stakeholders. Continue management of mine water discharge. Continue mine dump and portal stabilization. Assess sediment impacts. Identify incident end points. Implement river alert and notification plan during mine site operations. Explore real time monitoring options. Continue water and sediment sampling along the Animas and San Juan Rivers. Evaluate need for delivery of feed for livestock on Navajo Nation.
Co	mmand Emphasis
For the	next operational period, the ICPGK command emphasis will be:
	Safety of responders and the public
	Visitors to the mine site are required to go through a safety briefing.
	Incident personnel entering Southern Ute Tribal (SUT) lands must be escorted by a SUT member.
	All sampling operations in Navajo Nation must be conducted with law enforcement escort.
	Ensure information flow between ICP and Stakeholders is transparent.
	etrics provided in this Situation Report represent quantities reported for work completed on 13 mber 2015. Press releases are presented in Attachment 1. Metrics table cells and report text

Tł highlighted in yellow represent a change/addition from the previous day's Situation Report.



1.0 BACKGROUND

The Gold King Mine (GKM) near Silverton, Colorado is a historic gold mine at an elevation of approximately 11,300 feet above mean sea level. The mine discharge includes acidic mine drainage that is a contributor of heavy metals into the Cement Creek drainage of the Animas River watershed. The GKM workings have been inaccessible since 1995 when the mine portal collapsed.

On 5 August 2015, an estimated volume of up to three million gallons of water containing sediment and dissolved metals was suddenly released from the Gold King Mine adit. This water discharged into Cement Creek which feeds into the Animas River, and eventually flows into the San Juan River.

The ICPGK (located in Durango, Colorado) continues to assess and mitigate effects from the release. The U.S. EPA continues daily sampling of surface water and sediment from the Animas River, San Juan River and Cement Creek. Additionally, U.S. EPA continues to schedule sampling of private wells within an alluvial area surrounding the Animas River.

2.0 OPERATIONS

2.1 Mine Operations

A summary of mine operations is presented below.

Mine operations are utilizing USCG Strike Team personnel to monitor incoming calls, emails and radio traffic.
Lime addition is ongoing (8 lbs every 9 min).
Automated lime hopper is being used to dispense lime.
Diverting Gold King Mine water to the Red and Bonita (R&B) settling ponds.
Monitoring of treatment process at 5 locations twice daily.
Average flow rate of approximately 562 gallons per minute (gpm). Pre-treatment pH of 3.5
at Gold King Mine adit portal, and post-treatment pH of 5.07.
Bolting and wire mesh installation at the mine adit/portal was completed on 9 September 2015. Preparations are being made to install Shot-crete at the mine entrance to stabilize materials in and around the adit / portal.
Continued construction of the Gladstone settling ponds number 1 through 4. Continued installing lining in Pond #1.

2.2 River Sampling

Operational activities for surface water and sediment sampling are summarized below. Sample quantities are based on the SCRIBE database, and include field samples and quality assurance/quality control (QA/QC) samples.



Table 1 - Operations Sampling Summary					
Matrix	U.S. EPA Region	Qty. (13 Sep 2015)	Qty. (Cumulative)		
Surface Water Samples	8	8	462		
	6	9	407		
	9	0	256		
	Total	17	1,125		
	8	8	219		
Sediment Samples	6	9	413		
	9	0	202		
	Total	17	834		

2.3 Private Wells / Mitigation / Water Tanks

2.3.1 Private Wells

Operational activities for private drinking water well sampling are summarized below.

The assessment focus area for private drinking water wells in Region 8 includes those private drinking water wells located within 300 feet of the banks of the Animas River (including connected canals), between Baker's Bridge and the Colorado/New Mexico state line. The assessment focus area for private drinking water wells in Region 6 includes those private drinking water wells located within 500 feet of the banks of the affected waterways (Animas River, San Juan River and connected canals) within the Animas River watershed in New Mexico. There has been no sampling of private drinking water wells in U.S. EPA Region 9.

Private well samples that have metals concentrations greater than the Maximum Contaminant Levels (MCLs) and were collected from private drinking water wells during the first sampling event were sampled a second time to confirm the analytical results. In Region 8, the second round of samples at a given property were collected from the tap. Residents that have MCL exceedances have been notified.

For Region 6 there was one private drinking water well, which had a primary MCL exceedance. The well exceeded the MCL for lead, and after further assessment by the State of New Mexico and EPA it was determined that the exceedance was unrelated to the GKM incident.

A summary of private drinking water well sampling is presented below.

Table 2 – Private Drinking Water Well Sampling Summary						
Matrix	U.S. EPA Region	Qty. (13 Sep 2015)	Qty. (Cumulative)			
Private Drinking Water Well Samples Collected	8	0	390			
(from SCRIBE, includes QA/QC samples)	6	0	285			
Private Drinking Water Well Locations Inside	8	0	47			
Focus Area	6	0	120			
Private Drinking Water Well Locations Outside	8	0	269			
Focus Area	6	0	0			



Table 3 – Private Drinking Water Well Primary MCL Exceedances					
Matrix	U.S. EPA Region	Qty. (13 Sep 2015)	Qty. (Cumulative)		
Within Focus Area: Private Drinking Water Wells Containing Contaminant	8	0	3		
Concentrations Above MCLs during Second Sampling Event	6	0	1*		
Outside of Focus Area: Private Drinking Water Wells Containing Contaminant	8	0	2		
Concentrations Above MCLs during Second Sampling Event	6	0	0		

^{*}Note: One well in Region 6 exceeded the MCL for lead and after further assessment by the State of New Mexico and EPA, it was determined that the exceedance was unrelated to the GKM incident.

Private water well sampling in U.S. EPA Region 6 was completed on 27 August 2015 and is no longer ongoing in U.S. EPA Region 6.

2.3.2 Water Mitigation

No public water systems are currently affected by the release or response operations.

U.S. EPA purchased 1,232 cases of bottled water to supply the community. Public support activities completed are summarized below.

Table 4 - Public Support Summary							
	13	13 Sep 2015			Cumulative		
Activity	Entity	Deliveries (each)	Qty. (gal)	Qty. (hay bales)	Deliveries (each)	Qty. (gal)	Qty. (hay bales)
Potable Water Deliveries	US EPA R8	0	0			62,000	
	US EPA R8	0	0		47	141,980	
Livestock / Agricultural	US EPA R6				59	1,104,990	
Water Deliveries	US EPA R9	0	0		13	218,400	
	BIA*	0	0		7	975,888	
Agricultural Food	US EPA R6				1		244
Deliveries	US EPA R9	0		0	15		5,760

^{*}Note: BIA- Bureau of Indian Affairs delivered non-potable water to seven locations in the Navajo Nation from approximately 12 August 2015 to 31 August 2015.

On 7 September 2015, U.S. EPA received a request for hay deliveries from four chapters of the Navajo Nation. These chapters include Beclabito, Oljato, Mexican Water and Upper Fruitland. On 8 September 2015, U.S. EPA received an additional request for hay delivery from the Navajo Mountain chapter. U.S. EPA is planning to deliver one truckload (384 bales) of hay to each of the chapters for a total planned delivery of **1,920** bales.

On 9 September 2015, U.S. EPA delivered hay to the Upper Fruitland chapter. On 11 September 2015, Navajo Nation cancelled the hay requests for the Beclabito and Hogback Chapters, and asked that these hay bales be delivered to the Aneth Chapter instead. The remaining hay deliveries will be completed on



Saturday, 12 September 2015 or by early next week.

Bulk water delivery in Region 8 has been discontinued. Bottled water was also provided to 3 residences in Region 8 The Region 6 agriculture and livestock team demobilized on 20 August 2015. There have been

no potable water deliveries by the U.S. EPA in Regions 6 and 9; nor agricultural food deliveries by U.S. EPA in Region 8.
The Southern Ute Indian Tribe (SUIT) has delivered drinking water and stock water to tribal members within the Reservation boundary. Approximate volumes to-date include: 100 cases of bottled water 18 water dispenser units and 42 – five-gallon water containers (210 gallons total). 8,000 gallons of bulk water deliveries (there have been no new requests in the past two weeks)
SUIT Tribal Housing Services completed the installation of 14 RO filtration systems at potentially impacted tribal residences.
The Bureau of Indian Affairs (BIA) provided the water to the Navajo Nation for livestock and agricultural use. A summary of the metrics is provided below:
 From 12 August to 31 August 2015, BIA delivered a total of approximately 975,888 gallons of water to seven stations located throughout Navajo Nation. The seven stations that received water were designated as follows: Upper Fruitland, Shiprock, Gadii Ahi, Teec, Aneth, Pt/Mexican Water and Monument Valley: For the seven locations, BIA serviced an average of 28 clients per day per location.
2.3.3 Other Mitigation Activities
On 9 September 2015, U.S. EPA completed sediment removal activities in two settling ponds for a fish farm along the Animas River.
2.3.4 Water Tank Assessment & Demobilization
On or about 15 August 2015, 15 black steel tanks were delivered by the ERRS contractor to certain locations on the Navajo Reservation as part of the response to the Gold King Mine (GKM) Site. Each o these tanks is reported to have a capacity of 16,500 gallons.
On 19 August 2015, two tanks at the Upper Fruitland location were removed by the ERRS contractor. On 3 September 2015, the OSC and START conducted an assessment on 11 of the tanks. On 4 Septembe 2015, five tanks were demobilized by the ERRS contractor. This included the following tanks: \[\text{ Tank 31L Meadow Farms location (This tank had 6,000 gallons of water. This was the tank that the Navajo Nation initially believed was contaminated) \[\text{ Tanks 913 and 907 Area 3 West location (these tanks were empty)} \] \[\text{ Tanks 914 and 906 New Meadows Location (these tanks were empty)} \]
The Bureau of Indian Affairs (BIA) delivered water to these tanks. Metrics for water volumes are provided in Table 4 above.



3.0 PLANNING

3.1 Environmental Unit

No Updates.

3.2 Resources

The table below summarizes staffing numbers for the federal entities and agencies active in the response.

Table 5 - Personnel On-Site					
Region	Agency / Entity	Number of Personnel (13 Sep 2015)			
	U.S. EPA	1			
Mine	U.S. Coast Guard	3			
Milne	U.S. EPA Contractors	4			
	U.S. Geological Survey	0			
	Visitors	0			
	U.S. EPA	24			
ICPGK	U.S. EPA Contractors	14			
ICPGK	USCG	2			
	Other Federal, State, Local and Tribal Entities				
	U.S. EPA	0			
6	U.S. EPA Contractors	8			
0	USCG	0			
	Other Federal, State, Local and Tribal Entities	0			
	U.S. EPA	0			
9	U.S. EPA Contractors	2			
9	USCG	0			
	Other Federal, State, Local and Tribal Entities				
Total 60					

No unmet critical resource needs reported.

4.0 FINANCE

4.1 Estimated Response Costs to Date

The table below summarizes estimated costs for the response.



Table 6 - Estimated Response Costs Reported as of 13 September 2015							
Region	U.S. EPA * Cumulative Expended Payroll	U.S. EPA Cumulative Expended Travel	U.S. EPA Cumulative Other Charges	U.S. EPA Cumulative Contractors Cost	Total Cumulative Costs		
8	\$913,762	\$194,473	\$44,450	\$3,033,225	\$4,185,910		
6	\$531,224	\$133,750	\$12,989	\$2,582,663	\$3,260,627		
9	\$547,440	\$88,000	\$0	\$1,796,576	\$2,432,016		
TOTAL	\$1,992.426	\$416,223	\$57,439	\$7,412,464	\$9,878,553		

4.2 Estimated Burn Rates

The table below summarizes current estimated burn rates for the response.

Table 7 - Estimated Daily Burn Rates				
U.S. EPA Region (as of 13 Sep 2015)				
8	\$128,380			
6	\$40,970			
9	\$120,116			
Total	\$289,466			

5.0 LOGISTICS

As of 13 September 2015, the following overhead personnel needs remain to be filled:

Resource Unit Leader to replace current Resource Unit Leader by 0700, 14 Sep 2015
Planning Section Chief to replace current Planning Section Chief by 0700, 16 Sep 2015

6.0 SAFETY

The safety officer support for the mine site has been finalized and the USCG Strike Team is providing the day to day safety oversight of all operations and contractor work activities. The IMT Safety Officer will continue to make periodic visits to the site to coordinate the safety program with the OSC and USCG.

All ICP staff were informed of the serious accident observed yesterday on the mountain road to Silverton at the Operations briefing. The Operations section followed up with a message to sampling teams emphasizing the need to take precautions when driving and if unsafe weather or road conditions are present, to suspend operations that cannot be carried out safely. This is a high priority of the IC and SO.

The new site Safety Briefing was sent out with the deployment packages for incoming IMT staff.

A new CISM team member arrived today to assist with CISM activities in the field.

No Recordable injuries or illnesses were reported.

ICPKG has a Critical Incident Stress Management (CISM) program for personnel involved with the



response. On 11 September 2015, the CISM office at the ICPGK command post received **4** contacts from response personnel. To date, the CISM center has received **236** visits.

7.0 PUBLIC INFORMATION

7.1 Community Engagements

No community engagements occurred on 13 September 2015.

Table 8 - Community Engagement Summary					
Description U.S. EPA Region (13 Sep 2015					
	8	0			
Community Engagements	6	0			
	9	0			

7.2 Anticipated Events: VIPs/Congressional Visits and Public Events

Known site visits and public events for the next 14 days are summarized below.

Table 9 - Anticipated Site Visits and Public Events Summary		
	Planned Event	Anticipated Date
None Scheduled		

7.3 Community Relations Branch

Effective 27 August 2015, calls to the Regional Call Center (970-385-8700) regarding the Gold King Mine Release Incident are being directed to the National Call Center (844-607-9700). The National Call Center is now being operated by U.S. EPA Headquarters. A total of **809** calls were received at the Regional Call Center during its operation by former Area Command (AC). A total of **223** calls were received at the National Call Center during its operation by AC, this included **120** calls related to Region 8, **67** calls related to Region 6 and **38** calls related to Region 9.

8.0 LIAISON

Federal, regional, local and other entities participating in the response are summarized below.

- U.S. EPA
- U.S. Coast Guard (USCG)
- U.S. Geological Survey (USGS)
- U.S. Army Corps of Engineers (USACE)
- U.S. Bureau of Reclamation (USBOR)
- U.S. Fish and Wildlife Services (USFWS)

Colorado Office of Emergency Management (OEM)

Colorado Department of Public Health and Environment (CDPHE)



New Mexico Environment Department (NMED)
New Mexico (NM) Department of Health
NM Office of the State Engineer
NM Department of Game and Fish
State of Utah
State of Arizona

City of Durango La Plata County San Juan County San Juan Basin Health Department County of San Juan – New Mexico

Southern Ute Indian Tribe (SUIT) Navajo Nation

9.0 SOURCE OF ADDITIONAL INFORMATION

For additional information, refer to $\underline{www.epa.gov/goldkingmine}\;.$

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ATTACHMENT 1 PRESS RELEASE

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NO PRESS RELEASES FOR 13 SEPTEMBER 2015

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